Kansas Department of Health and Environment Bureau of Environmental Field Services Watershed Management Section 1000 SW Jackson, Suite 430, Topeka, Kansas 66612-1367

Testing to Help Ensure Safe Drinking Water Technical Guidance Document WMS 20-951



This publication provides help for users in understanding the importance of regular water testing and the steps taken to maintain, evaluate and protect the water source.

Contamination of drinking water can be caused by improperly disposed chemicals, animal wastes, pesticides, wastes injected underground, and naturally occurring substances. Public water systems use water treatment and monitoring to protect consumers from such contaminants. Unlike public water users, private well owners are responsible for all quality and safety aspects of their water.

Ensuring Safe Drinking Water

About 151,000 people in Kansas get their drinking water from private wells (United States Geological Survey, 2016). Wells and springs are often contaminated because of poor location, inadequate construction, delayed or lack of maintenance, accidents, and little protection. The most common health-concern contaminants are coliform bacteria, especially E.coli or fecal coliform, and nitrates. Others include metals (lead and copper), salts (often sodium chloride), petrochemicals, and pesticides. Water tests taken before pollution begins, or in its early stages, are helpful in showing damage to the water supply. The Kansas Department of Health and Environment's (KDHE's) Environmental Interest Finder, found at maps.kdhe.state.ks.us/keif/, can provide guidance on nearby known contaminated sites and probable contaminants of concern.

See the latest copy of KDHE's publication, <u>Private Well Maintenance and Protection</u>, for detailed private water well maintenance needs. Essential steps to be followed by the owner or well water user are:

Well location and construction:

- Consult a Kansas-licensed well contractor to verify proper separation between your well, home, waste systems, and chemical storage facilities.
- Periodically check the well cover or well cap to ensure it is intact.
- Ensure that the top of the well is at least one foot above the ground.
- Slope the ground away from your well for proper drainage.

Well maintenance, evaluation, and protection:

- Wells should be checked and tested annually for mechanical problems; cleanliness; and the presence of coliform bacteria, nitrates/nitrites, and any other contaminants of local concern.
- Store chemicals such as fertilizer, pesticide, oil, fuel, paint, or solvent far away from the well.
- Don't allow back-siphonage. When mixing pesticides, fertilizers, or other chemicals, don't put the hose inside the tank or container.
- Keep your well records such as the construction report, annual water well system maintenance reports, and water testing results in a safe place.

Necessary Testing

There is no single test for drinking water safety. Routine testing is the only reliable way to find pollutants and evaluate the safety of your water, and is necessary to determine the need for treatment. See the latest KDHE publication *Recommended Water Tests for Private*Wells. KDHE recommends annual testing for bacteria (total coliform, and *E.coli* or fecal coliform) and nitrates. Other testing is required to ensure safe, contaminant-free water, especially when a well has location or construction deficiencies. For most other contaminants, a test every one to three years is adequate and forms a baseline for detecting changes that indicate possible contamination.

Qualified Labs

The only way to judge the quality of a laboratory's service is through independent evaluation. Kansas Department of Health and Environment (KDHE) certifies laboratories following National Environmental Laboratory Accreditation Management System 2009 TNI Standards (previously, 2003 NELAC standards). Well owners can find the nearest certified laboratory at kdheks.gov/envlab/KS certified laboratories.htm.

Water treatment dealers often provide tests for nuisance problems, and local environmental professionals may offer sample kits or screening tests; however, using a laboratory certified by KDHE is recommended for testing. Multiple laboratories in Kansas and nationwide are accredited and certified for drinking water testing by KDHE. A Laboratory Accreditation Management System (LAMS) instruction manual to search for Kansas-certified laboratories can be found at kdheks.gov/envlab/download/LAMS user manual for kS lab search.pdf. For detailed information about specific chemical certification, contact KDHE, Laboratory Improvement Program Office at (785) 291-3162, or visit kdheks.gov/lipo/index.html. See Table 1 on the next page for KDHE accredited labs in Kansas and other states.

Selecting the Laboratory

As any certified laboratory should be capable of doing tests accurately and within standards, price is not a good gauge of quality. The average cost for tests ranges anywhere from \$20 for a simple bacteria test, to \$150 for a more comprehensive report. Many kits can be purchased online for under \$40 that test for bacteria, pesticides, lead, copper, iron, nitrate, and water hardness in water wells. Selecting a laboratory within overnight-shipping distance for the carrier is highly recommended. The trade association, American Council of Independent Laboratories, acil.org, can help in choosing a testing facility.

Collecting and Transporting the Sample

A well owner can also stop by the local county health department or cooperative extension office and pick up a kit to take his or her own samples. The kits are free, but the customer must send it off to a certified laboratory for testing. Contact the laboratory to get a sample container. Follow instructions to collect the sample, either those from the laboratory or by watching the video on how to take a water sample available at kdheks.gov/wellwateraware/water well testing.htm.

Before taking a sample, check whether there is a limit on time to deliver it to the laboratory — many tests require the sample be delivered within 24 hours of collection. Samples should always be taken from cold, unsoftened, and untreated water. Select a faucet that is regularly used. Remove the aerator and allow the water to run several minutes. For lead tests, sample the first flush after water has remained in the system overnight. After collecting, refrigerate but do not freeze the sample. Protect it from sunlight.

Interpreting a Laboratory Test Report

A water test report may look confusing. It often contains unfamiliar terms and abbreviations. One way to understand your results is to ask the lab that did the testing. An alternative approach is to receive assistance by contacting the local health or public works department, or the K-State Research and Extension Office. See KDHE's publication, *Understanding Your Water Test Report*, for more information on water test reports, Maximum Contaminant Levels (MCLs), and possible sources of contaminants and health risks.

Related Guidance documents

Kansas Home*A*Syst–An Environmental Risk

Management Guide for the Home

https://bookstore.ksre.ksu.edu/pubs/HOMEASST.pdf

Wellcare® Quick-Guide for Well Owners brochure

https://www.watersystemscouncil.org/wpcontent/uploads/2019/04/Quick-Guide-BrochureFillable.pdf

EPA Manual for Private Wells

https://nepis.epa.gov/Exe/ZyPDF.cgi/2000U9HN.PD
F?Dockey=2000U9HN.PDF

<u>KDHE Environmental Health Handbook, Chapter 1</u>
https://www.kdheks.gov/nps/lepp/EHH_Ch_I_Private_Wells_052705.pdf

<u>EPA Info-Graphic: Protect Your Private Well</u>
https://www.epa.gov/privatewells/protect-your-private-well

<u>Free Private Well Training</u>
http://privatewellclass.org/

KDHE- Geology and Well Technology Unit https://www.kdheks.gov/geo/index.html

Private well Info Sheets

https://www.watersystemscouncil.org/water-well-help/wellcare-info-sheets/

<u>USGS- Ground Water and the Rural Homeowner</u>
https://pubs.usgs.gov/gip/gw_ruralhomeowner/
National Drinking Water Clearinghouse (NDWC).

https://www.nesc.wvu.edu/subpages/wells.cfm

Table 1. KDHE accredited environmental laboratories in Kansas and other states for drinking water testing.

| Accurate Laboratory - OKC 12036 North Pennsylvania Oklahoma City Oklahoma 73120 405 751 3132 Accurate Labs Inc Stillwater 505 South Lowry Stillwater Oklahoma 74074 405 372 5300 ALS Environmental - Fort Collins 250 Commerce Drive Fort Collins Colorado 80524 970 490 1511 Analytical Services INC 130 Allen Brook Lane Williston Vermont 05495 802 878 5138 Eurofins Eaton Analytical, LLC 110 S. Hill Street South Bend Indiana 46017 574 233 4777 Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 17001 717 656 2300 Eurofins TestAmerica St. Louis 13715 Rider Trail North Earth City Missouri 6035-1205 314 298 8566 Hazen Research INC Kansas 6010s 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories, INC 250 West 84th Drive Merrillville Indiana 46410 219 | Name | Address | City | State | Zip code | Contact |
|--|---|---------------------------------|-----------------|--------------|------------|--------------|
| ALS Environmental - Fort Collins 225 Commerce Drive Fort Collins Colorado 80524 970 490 1511 Analytical Services INC 130 Allen Brook Lane Williston Vermont 05495 802 878 5138 Eurofins Eaton Analytical, LLC 110 S. Hill Street South Bend Indiana 46617 574 233 4777 Eurofins Eaton Analytical, LLC - Monroyia 750 Royal Oaks Drive, Suite 100 Monrovia California 91016 626 386 1100 Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 63045-1205 314 298 8566 Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbas Laboratories, INC 250 West 84th Drive Merrillville Indiana 4610 219 769 8378 National Testing Laboratories, INC 250 West 84th Drive< | Accurate Laboratory - OKC | 12036 North Pennsylvania | Oklahoma City | Oklahoma | 73120 | 405 751 3132 |
| Analytical Services INC 130 Allen Brook Lane Williston Vermont 05495 802 878 5138 Eurofins Eaton Analytical, LLC 110 S. Hill Street South Bend Indiana 46617 574 233 4777 Eurofins Eaton Analytical, LLC - Monrovia 750 Royal Oaks Drive, Suite 100 Monrovia California 91016 626 386 1100 Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 16001 717 656 2300 Eurofins TextAmerica St Louis 13715 Rider Trail North Earth City Missouri 63045-1205 314 298 8566 Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories Inc. 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories Inc. 255 West 84th Drive | Accurate Labs Inc Stillwater | 505 South Lowry | Stillwater | Oklahoma | 74074 | 405 372 5300 |
| Eurofins Eaton Analytical, LLC 110 S. Hill Street South Bend Indiana 46617 574 233 4777 Eurofins Eaton Analytical, LLC - Monrovia 750 Royal Oaks Drive, Suite 100 Monrovia California 91016 626 386 1100 Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 1701 717 656 2300 Eurofins TestAmerica St Louis 13715 Rider Trail North Earth City Missouri 63045-1205 314 298 8566 Hazer Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 National Testing Laboratories INC 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 556 South Mansfield St. Ypsilanti Michigan 48197 440 449 2525 Pace Analytical Services LLC 220 W | ALS Environmental - Fort Collins | 225 Commerce Drive | Fort Collins | Colorado | 80524 | 970 490 1511 |
| Eurofins Eaton Analytical, LLC - Monrovia 750 Royal Oaks Drive, Suite 100 Monrovia California 91016 626 386 1100 Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 17601 717 656 2300 Eurofins TestAmerica St Louis 13715 Rider Trail North Earth City Missouri 63045-1205 314 298 8566 Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratoriey - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories INC 250 West 84th Drive Merillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 256 South Mansfield St. Ypsilanti Michigan 4817 440 449 2525 Pace Analytical Services, LLC 12065 Lebanon Rd. Mt. Juliet Tennessee 37122 615 758 5888 Pace Analytical Services, Inc Frontenac <t< th=""><th>Analytical Services INC</th><th>130 Allen Brook Lane</th><th>Williston</th><th>Vermont</th><th>05495</th><th>802 878 5138</th></t<> | Analytical Services INC | 130 Allen Brook Lane | Williston | Vermont | 05495 | 802 878 5138 |
| Eurofins Lancaster Laboratories Environmental LLC 2425 New Holland Pike Lancaster Pennsylvania 17601 717 656 2300 Eurofins Test America St Louis 13715 Rider Trail North Earth City Missouri 63045-1205 314 298 8566 Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories, INC 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 556 South Mansfield St. Ypsilanti Michigan 48197 440 449 2525 Pace Analytical Energy Services, LLC 220 William Pitt Way Pittsburgh Pennsylvania 15238 412 826 5245 Pace Analytical Services, Inc Frontenac 808 West McKay Frontenac Kansas 66763 620 235 5003 Pace Analytical Services, Inc Lenexa KS 96 | Eurofins Eaton Analytical, LLC | 110 S. Hill Street | South Bend | Indiana | 46617 | 574 233 4777 |
| Eurofins TestAmerica St Louis 13715 Rider Trail North Earth City Missouri 63045-1205 314 298 856 Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories, INC 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 556 South Mansfield St. Ypsilanti Michigan 48197 440 449 2525 Pace Analytical Energy Services, LLC 220 William Pitt Way Pittsburgh Pennsylvania 15238 412 826 5245 Pace Analytical Services, Inc Frontenac 808 West McKay Frontenac Kansas 66763 620 235 0003 Pace Analytical Services, Inc Lenexa KS 9608 Loiret Boulevard Lenexa Kansas 67041 785 827 1273 Pace Analytical Services, Inc Salina 525 N Eighth St. | Eurofins Eaton Analytical, LLC - Monrovia | 750 Royal Oaks Drive, Suite 100 | Monrovia | California | 91016 | 626 386 1100 |
| Hazen Research INC 4601 Indiana Street Golden Colorado 80403 303 279 4501 Keystone Laboratories. Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories. INC 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 556 South Mansfield St. Ypsilanti Micrigan 48197 440 449 2525 Pace Analytical Energy Services. LLC 220 William Pitt Way Pittsburgh Pennsylvania 15238 412 826 5245 Pace Analytical Services LLC 12065 Lebanon Rd. Mt. Juliet Tennessee 37122 615 758 5858 Pace Analytical Services, Inc Frontenac 808 West McKay Frontenac Kansas 66763 620 235 0003 Pace Analytical Services, Inc Lenexa KS 9608 Loiret Boulevard Lenexa Kansas 67041 785 827 1273 Pace Analytical Services, Inc Salina 525 N Eighth St. <th< th=""><th>Eurofins Lancaster Laboratories Environmental LLC</th><th>2425 New Holland Pike</th><th>Lancaster</th><th>Pennsylvania</th><th>17601</th><th>717 656 2300</th></th<> | Eurofins Lancaster Laboratories Environmental LLC | 2425 New Holland Pike | Lancaster | Pennsylvania | 17601 | 717 656 2300 |
| Keystone Laboratories, Inc Kansas City 835 S Saint Paul St. Kansas City Kansas 66105 913 321 7856 Meridian Analytical Laboratory - Wichita 2626 South Rock Rd., Suite 124 Wichita Kansas 67210 316 618 8787 Microbac Laboratories, INC 250 West 84th Drive Merrillville Indiana 46410 219 769 8378 National Testing Laboratories LTD 556 South Mansfield St. Ypsilanti Michigan 48197 440 449 2525 Pace Analytical Energy Services, LLC 220 William Pitt Way Pittsburgh Pennsylvania 15238 412 826 5245 Pace Analytical Services, Inc Frontenac 808 West McKay Frontenac Kansas 66763 620 235 0003 Pace Analytical Services, Inc Lenexa KS 9608 Loiret Boulevard Lenexa Kansas 66219 913 599 5665 Pace Analytical Services, Inc Salina 525 N Eighth St. Salina Kansas 67041 785 827 1273 Pace Analytical Services, Inc Salina 1700 Elm Street SE Minneapolis Minnesota 55414 612 607 1700 PDC Laboratories, Inc. Peoria < | Eurofins TestAmerica St Louis | 13715 Rider Trail North | Earth City | Missouri | 63045-1205 | 314 298 8566 |
| Meridian Analytical Laboratory - Wichita2626 South Rock Rd., Suite 124WichitaKansas67210316 618 8787Microbac Laboratories, INC250 West 84th DriveMerrillvilleIndiana46410219 769 8378National Testing Laboratories LTD556 South Mansfield St.YpsilantiMichigan48197440 449 2525Pace Analytical Energy Services, LLC220 William Pitt WayPittsburghPennsylvania15238412 826 5245Pace Analytical Services LLC12065 Lebanon Rd.Mt. JulietTennessee37122615 758 5858Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, Inc Salina1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc, Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetU | Hazen Research INC | 4601 Indiana Street | Golden | Colorado | 80403 | 303 279 4501 |
| Microbac Laboratories, INC250 West 84th DriveMerrillvilleIndiana46410219 769 8378National Testing Laboratories LTD556 South Mansfield St.YpsilantiMichigan48197440 449 2525Pace Analytical Energy Services, LLC220 William Pitt WayPittsburghPennsylvania15238412 826 5245Pace Analytical Services LLC12065 Lebanon Rd.Mt. JulietTennessee37122615 758 5858Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67801620 665 5661Servi-Tech Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois6048-3101708 534 5200TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois6048-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado | Keystone Laboratories, Inc Kansas City | 835 S Saint Paul St. | Kansas City | Kansas | 66105 | 913 321 7856 |
| National Testing Laboratories LTD556 South Mansfield St.YpsilantiMichigan48197440 449 2525Pace Analytical Energy Services, LLC220 William Pitt WayPittsburghPennsylvania15238412 826 5245Pace Analytical Services LLC12065 Lebanon Rd.Mt. JulietTennessee37122615 758 5858Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado8002-4517303 736 0100 | Meridian Analytical Laboratory - Wichita | 2626 South Rock Rd., Suite 124 | Wichita | Kansas | 67210 | 316 618 8787 |
| Pace Analytical Energy Services, LLC220 William Pitt WayPittsburghPennsylvania15238412 826 5245Pace Analytical Services LLC12065 Lebanon Rd.Mt. JulietTennessee37122615 758 5858Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIlwa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois60711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | Microbac Laboratories, INC | 250 West 84th Drive | Merrillville | Indiana | 46410 | 219 769 8378 |
| Pace Analytical Services LLC12065 Lebanon Rd.Mt. JulietTennessee37122615 758 5858Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois60484-3101708 534 5200TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | National Testing Laboratories LTD | 556 South Mansfield St. | Ypsilanti | Michigan | 48197 | 440 449 2525 |
| Pace Analytical Services, Inc Frontenac808 West McKayFrontenacKansas66763620 235 0003Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, Inc Salina1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois60484-3101708 534 5200TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | Pace Analytical Energy Services, LLC | 220 William Pitt Way | Pittsburgh | Pennsylvania | 15238 | 412 826 5245 |
| Pace Analytical Services, Inc Lenexa KS9608 Loiret BoulevardLenexaKansas66219913 599 5665Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | Pace Analytical Services LLC | 12065 Lebanon Rd. | Mt. Juliet | Tennessee | 37122 | 615 758 5858 |
| Pace Analytical Services, Inc Salina525 N Eighth St.SalinaKansas67041785 827 1273Pace Analytical Services, LLC - Minneapolis MN1700 Elm Street SEMinneapolisMinnesota55414612 607 1700PDC Laboratories, Inc. Peoria2231 W. Altorfer Dr.PeoriaIllinois61615800 752 6651SDK Laboratories, Inc.1000 Corey RoadHutchinsonKansas67501620 665 5661Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | Pace Analytical Services, Inc Frontenac | 808 West McKay | Frontenac | Kansas | 66763 | 620 235 0003 |
| Pace Analytical Services, LLC - Minneapolis MN 1700 Elm Street SE Minneapolis Minnesota 55414 612 607 1700 PDC Laboratories, Inc. Peoria Illinois 61615 800 752 6651 SDK Laboratories, Inc. SDK Laboratories, Inc. 1000 Corey Road Hutchinson Kansas 67501 620 665 5661 Servi-Tech Laboratories, Inc. 1816 East Wyatt Earp Dodge City Kansas 67801 620 227 7509 State Hygienic Laboratory at The Univ. of Iowa - Coralville 2490 Crosspark Road Coralville Iowa 52241-4721 319 335 4500 Teklab, Incorporated 83920 Pintail, Suite A Collinsville Illinois 62711 618 920 2534 TestAmerica Chicago 2417 Bond Street University Park Illinois 60484-3101 708 534 5200 TestAmerica Denver 4955 Yarrow Street Arvada Colorado 80002-4517 303 736 0100 | Pace Analytical Services, Inc Lenexa KS | 9608 Loiret Boulevard | Lenexa | Kansas | 66219 | 913 599 5665 |
| PDC Laboratories, Inc. Peoria Illinois 61615 800 752 6651 SDK Laboratories, Inc. 1000 Corey Road Hutchinson Kansas 67501 620 665 5661 Servi-Tech Laboratories, Inc. 1816 East Wyatt Earp Dodge City Kansas 67801 620 227 7509 State Hygienic Laboratory at The Univ. of Iowa - Coralville 2490 Crosspark Road Coralville Iowa 52241-4721 319 335 4500 Teklab, Incorporated 83920 Pintail, Suite A Collinsville Illinois 62711 618 920 2534 TestAmerica Chicago 2417 Bond Street University Park Illinois 60484-3101 708 534 5200 TestAmerica Denver 4955 Yarrow Street Arvada Colorado 80002-4517 303 736 0100 | Pace Analytical Services, Inc Salina | 525 N Eighth St. | Salina | Kansas | 67041 | 785 827 1273 |
| SDK Laboratories, Inc. 1000 Corey Road Hutchinson Kansas 67501 620 665 5661 Servi-Tech Laboratories, Inc. 1816 East Wyatt Earp Dodge City Kansas 67801 620 227 7509 State Hygienic Laboratory at The Univ. of Iowa - Coralville 2490 Crosspark Road Coralville Iowa 52241-4721 319 335 4500 Teklab, Incorporated 83920 Pintail, Suite A Collinsville Illinois 62711 618 920 2534 TestAmerica Chicago TestAmerica Denver 4955 Yarrow Street Arvada Colorado 80002-4517 303 736 0100 | Pace Analytical Services, LLC - Minneapolis MN | 1700 Elm Street SE | Minneapolis | Minnesota | 55414 | 612 607 1700 |
| Servi-Tech Laboratories, Inc.1816 East Wyatt EarpDodge CityKansas67801620 227 7509State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | PDC Laboratories, Inc. Peoria | 2231 W. Altorfer Dr. | Peoria | Illinois | 61615 | 800 752 6651 |
| State Hygienic Laboratory at The Univ. of Iowa - Coralville2490 Crosspark RoadCoralvilleIowa52241-4721319 335 4500Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | SDK Laboratories, Inc. | 1000 Corey Road | Hutchinson | Kansas | 67501 | 620 665 5661 |
| Teklab, Incorporated83920 Pintail, Suite ACollinsvilleIllinois62711618 920 2534TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | Servi-Tech Laboratories, Inc. | 1816 East Wyatt Earp | Dodge City | Kansas | 67801 | 620 227 7509 |
| TestAmerica Chicago2417 Bond StreetUniversity ParkIllinois60484-3101708 534 5200TestAmerica Denver4955 Yarrow StreetArvadaColorado80002-4517303 736 0100 | State Hygienic Laboratory at The Univ. of Iowa - Coralville | 2490 Crosspark Road | Coralville | Iowa | 52241-4721 | 319 335 4500 |
| TestAmerica Denver 4955 Yarrow Street Arvada Colorado 80002-4517 303 736 0100 | Teklab, Incorporated | 83920 Pintail, Suite A | Collinsville | Illinois | 62711 | 618 920 2534 |
| | TestAmerica Chicago | 2417 Bond Street | University Park | Illinois | 60484-3101 | 708 534 5200 |
| Test America INC Buffalo 10 Hazelwood Drive Amherst New York 14228-2223 716 691 2600 | <u>TestAmerica Denver</u> | 4955 Yarrow Street | Arvada | Colorado | 80002-4517 | 303 736 0100 |
| | <u>Test America INC Buffalo</u> | 10 Hazelwood Drive | Amherst | New York | 14228-2223 | 716 691 2600 |